

# Import & Export of High Risk Sources



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# Overview

- International Activities - IAEA Code of Conduct on the Safety and Security of Radioactive Sources
- NRC's Domestic Activities
  - Current requirements
  - Orders
  - Rule Changes

# IAEA Code of Conduct

- Imports & Exports
  - Recipient country has regulatory structure
  - Recipient is authorized to receive/possess sources
  - Prior notice of shipments of Category 1 & 2 sources
  - Prior consent for shipments of Category 1 sources

# Current Import & Export Licensing Requirements

- Almost all high risk sources are byproduct material
- Most byproduct material currently imported/exported under General License

# Orders

- Orders issued to irradiators and manufacturers and distributors
- Physical security requirements
- Transportation security
- Prior notification of shipments
- Verification recipient authorized to receive/possess

# Part 110 Rule Change

- Specific licenses required for imports/exports of Category 1 and 2 sources
- Assessment of recipient country's regulatory structure required for Category 1 and 2 sources
- Verification of recipient's authorization required for Category 1 and 2 sources
- Prior notice of shipments required for Category 1 and 2 sources
- Prior consent required for Category 1 shipments

| Radioactive<br>Material | Category 1<br>(curies) | Category 2<br>(curies) |
|-------------------------|------------------------|------------------------|
| Americium-241           | 2,000                  | 20                     |
| Californium-252         | 500                    | 5                      |
| Curium-244              | 1,000                  | 10                     |
| Cobalt-60               | 800                    | 8                      |
| Cesium-137              | 3,000                  | 30                     |
| Gadolinium-153          | 30,000                 | 300                    |
| Iridium-192             | 2,000                  | 20                     |
| Promethium-147          | 1,000,000              | 10,000                 |
| Plutonium-238           | 2,000                  | 20                     |
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| Selenium-75             | 5,000                  | 50                     |
| Strontium-90            | 30,000                 | 300                    |
| Thulium-170             | 500,000                | 5000                   |
| Ytterbium-169           | 8,000                  | 80                     |

United States